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|---|------------------------------|---------------------------|----------------------------------|--|
| <b>PTO-1449</b><br><b>Information Disclosure Citation<br/>in an Application</b><br><small>FEB 18 2005</small> | Application No.              | Applicant(s)              |                                  |  |
|   | 10/706,637                   | Jacques C.S. Kools et al. |                                  |  |
|   | Docket Number<br>021208.0247 | Group Art Unit<br>2822    | Filing Date<br>November 12, 2003 |  |

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|    | DOCUMENT NO. | DATE       | NAME               | CLASS | SUBCLASS | FILING DATE |
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| A. | 5616177      | 4/1/1997   | Yamada             | 117   | 102      | 2/22/95     |
| B. | 5879459      | 3/09/1999  | Gadgil et al.      | 118   | 715      | 8/29/97     |
| C. | 5916365      | 6/29/1999  | Sherman            | 117   | 92       | 8/16/96     |
| D. | 5930046      | 7/27/1999  | Solberg et al.     | 359   | 580      | 9/30/97     |
| E. | 5944964      | 8/31/1999  | Solberg et al.     | 204   | 192.26   | 2/13/97     |
| F. | 6015590      | 1/18/2000  | Suntola et al.     | 427   | 255.23   | 09/25/96    |
| G. | 6144060      | 11/7/2000  | Park et al.        | 257   | 310      | 7/31/98     |
| H. | 6174377      | 1/16/2001  | Doering et al.     | 118   | 729      | 1/4/99      |
| I. | 6200893      | 3/13/2001  | Sneh               | 438   | 685      | 3/11/99     |
| J. | 6200866      | 3/13/2001  | Ma et al.          | 438   | 299      | 9/30/99     |
| K. | 2001/0024387 | 9/27/2001  | Raaijmakers et al. | 365   | 200      | 2/22/01     |
| L. | 6319439      | 11/20/2001 | Lee et al.         | 264   | 81       | 2/25/00     |
| M. | 6335240      | 1/1/2002   | Kim et al.         | 438   | 253      | 1/6/99      |
| N. | 6342277      | 1/29/2002  | Sherman            | 427   | 562      | 4/14/99     |
| O. | 2002/0013487 | 1/31/2002  | Norman et al.      | 556   | 7        | 2/22/01     |

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|    | DOCUMENT NO. | DATE       | COUNTRY                    | CLASS | SUBCLASS | TRANSLATION<br>YES | NO |
|----|--------------|------------|----------------------------|-------|----------|--------------------|----|
| P. | 62221102     | 09/29/1987 | JP (with English abstract) | H01F  | 41/14    |                    | X  |
| Q. | 00/38191     | 06/29/2000 | WO                         | G11C  | 11/15    | X                  |    |
| R. | 02/09126     | 01/31/2002 | WO                         | H01F  | 10/32    | X                  |    |
| S. | 02/09158     | 01/31/2002 | WO                         | H01L  | 21/00    | X                  |    |
| T. | 01/88972     | 11/22/2001 | WO                         | H01L  | 21/321   | X                  |    |

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| V. | Akeman, J.J et al., "Identifying Tunneling in Ferromagnetic-Insulator-Ferromagnetic Thin Film Structures", World-wide web, <a href="http://physics.ucsd.edu/uksgroup/Tunneling.html">physics.ucsd.edu/uksgroup/Tunneling.html</a> , pp. 1-6, | Printed 02/04/2002 |
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| X. | Daughton, J.M., World-wide web <a href="http://nve.com/otherbiz/mram2.pdf">nve.com/otherbiz/mram2.pdf</a> , "Advanced MRAM Concepts", pp. 1-6  | 02/07/2001         |
| Y. | Fereday, R.J. et al., "Anhydrous Cobalt (III) Nitrate", <i>Chemical Communications</i> , pp. 271   | 1968               |

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| H. Picard | 6/2/05          |

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|   |                              |                           |                                  |  |
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| <b>PTO-1449</b><br><b>Information Disclosure Citation<br/>in an Application</b> | Application No.              | Applicant(s)              |                                  |  |
|   | 10/706,637                   | Jacques C.S. Kools et al. |                                  |  |
|   | Docket Number<br>021208.0247 | Group Art Unit<br>2822    | Filing Date<br>November 12, 2003 |  |

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| 3P | A. | 6358632      | 3/19/2002 | Dickey et al.    | 428   | 690      | 11/10/98    |
|    | B. | 2002/0041931 | 4/11/2002 | Suntola et al.   | 427   | 255.28   | 5/14/01     |
|    | C. | 6391785      | 5/21/2002 | Satta et al.     | 438   | 704      | 8/23/00     |
|    | D. | 6416577      | 7/9/2002  | Suntola et al.   | 117   | 88       | 06/07/00    |
|    | E. | 6420230      | 7/16/2002 | Derderian et al. | 438   | 255      | 8/31/00     |
|    | F. | 2002/0106846 | 8/8/2002  | Seutter et al.   | 438   | 200      | 2/2/01      |
|    | G. | 2002/0106846 | 8/8/2002  | Seutter et al.   | 438   | 200      | 2/2/01      |
|    | H. | 2002/0108570 | 8/15/2002 | Lindfors         | 118   | 715      | 4/16/01     |
|    | I. | 6441417      | 8/27/2002 | Zhang et al.     | 257   | 295      | 3/28/01     |
|    | J. | 6444495      | 9/3/2002  | Leung et al.     | 438   | 118      | 1/11/01     |
|    | K. | 6447607      | 9/10/2002 | Soininen et al.  | 117   | 200      | 12/27/00    |
|    | L. | 6448192      | 9/10/2002 | Kaushik          | 438   | 785      | 4/16/01     |
|    | M. | 6451119*     | 9/17/2002 | Sneh et al.      | 118   | 715      | 11/29/00    |
|    | N. | 6451695      | 9/17/2002 | Sneh             | 438   | 685      | 12/22/00    |
|    | O. | 2002/0137260 | 9/26/2002 | Leung et al.     | 438   | 118      | 1/11/01     |
| 3P | P. | 2002/0140103 | 10/3/2002 | Kloster et al.   | 257   | 767      | 3/28/01     |

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|  |    | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
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|  |    |              |      |         |       |          | YES NO      |
|  | Q. |              |      |         |       |          |             |
|  | R. |              |      |         |       |          |             |

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|    | T. | Imai, Takuji, World-wide web nikkeibp.asiabiztech.com/neia/200008/tech_108675.html, "100 Gbit/inch HDD Just Around the Corner", pp. 1-6                                       | 08/2000 |
|    | U. | Nilsen, O et al, "Thin Film Deposition of Lanthanum Manganite Perovskite by the ALE Process", Journal of Materials Chemistry, vol. 9, pp. 1781-1784.                          | 1999    |
|    | V. | Pakrad, C.D., "Pure Tech: Growth of MR/GMR Head Materials," World-wide web, puretechinc.com/tech_papers/tech_papers-4.htm, pp. 1-2  | 1999    |
|    | W. | Riihela et al., "Low Temperature Deposition of AlN Films by an Alternate Supply of Trimethyl Aluminum and Ammonia" Chemical Vapor Deposition, 2 (6): pp. 277-283.             | 1996    |
| 3P | X. | Suntola, Tuomo; Handbook of Crystal Growth, vol. 3, Thin Films and Epitaxy, Part B: Growth Mechanisms and Dynamics, Chapter 14, pp. 601-663, Hurle, ed. Elsevier Science B.V. | 1994    |

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|    | B. | 6475910      | 11/5/2002  | Sneh             | 438   | 685      | 9/22/00     |
|    | C. | 6475276      | 11/5/2002  | Eliers et al.    | 117   | 84       | 10/13/00    |
|    | D. | 6482262      | 11/19/2002 | Eliers et al.    | 117   | 84       | 10/13/00    |
|    | E. | 6482740      | 11/19/2002 | Soininen et al.  | 438   | 686      | 5/15/01     |
|    | F. | 2002/0187084 | 12/12/2002 | Lindfors et al.  | 422   | 177      | 7/24/02     |
|    | G. | 6503330      | 1/7/2003   | Sneh et al.      | 118   | 715      | 12/22/99    |
|    | H. | 6506352      | 1/14/2003  | Lindfors et al.  | 423   | 240      | 7/20/00     |
|    | I. | 6524952      | 2/25/2003  | Srinivas et al.  | 438   | 649      | 6/20/00     |
|    | J. | 6540838      | 4/1/2003   | Sneh et al.      | 118   | 715      | 6/28/02     |
|    | K. | 6548424      | 4/15/2003  | Putkonen         | 438   | 785      | 4/16/01     |
|    | L. | 6551406      | 4/22/2003  | Kilpi            | 118   | 728      | 12/27/00    |
|    | M. | 6562140      | 5/13/2003  | Bondestam et al. | 118   | 715      | 5/10/00     |
|    | N. | 2003/0096468 | 5/22/2003  | Soininen et al.  | 438   | 200      | 11/19/02    |
|    | O. | 6572705      | 6/3/2003   | Suntola et al.   | 118   | 702      | 1/14/00     |
| 26 | P. | 2003/0101927 | 6/5/2003   | Raaijmakers      | 117   | 200      | 12/10/02    |

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|--|----|--------------|------|---------|-------|----------|-------------|
|  |    |              |      |         |       |          | YES NO      |
|  | Q. |              |      |         |       |          |             |

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| 26 | X. | World-wide web, stoner.leeds.ac.uk/research/gmr.htm, "Giant Magnetoresistance (GMR) Heads", pp. 1-6.  | Printed 02/04/2002 |

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*W. P. G. R. S.*

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*6/22/05*

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| W | A. | 6579374      | 6/17/2003  | Bondestam et al. | 118   | 725      | 1/25/01     |
|   | B. | 2003/0121469 | 7/3/2003   | Lindfors et al.  | 117   | 105      | 10/11/02    |
|   | C. | 6599572      | 7/29/2003  | Saanila et al.   | 427   | 249.18   | 1/18/01     |
|   | D. | 2003/0140854 | 7/31/2003  | Klipi            | 118   | 715      | 2/13/03     |
|   | E. | 6602784      | 8/5/2003   | Sneh             | 438   | 680      | 8/6/02      |
|   | F. | 2003/0150385 | 8/14/2003  | Bondestam et al. | 118   | 722      | 3/6/03      |
|   | G. | 6616986      | 9/9/2003   | Sherman          | 427   | 562      | 10/9/01     |
|   | H. | 6620723      | 9/16/2003  | Byun et al.      | 438   | 627      | 6/27/00     |
|   | I. | 6627268      | 9/30/2003  | Fair et al.      | 427   | 533      | 5/3/01      |
|   | J. | 2003/0183171 | 10/2/2003  | Sneh et al.      | 118   | 724      | 3/27/03     |
|   | K. | 6630401      | 10/7/2003  | Sneh             | 438   | 680      | 8/6/02      |
|   | L. | 6630030      | 10/7/2003  | Suntola et al.   | 118   | 728      | 1/4/00      |
|   | M. | 6632279      | 10/14/2003 | Ritala et al.    | 117   | 101      | 10/13/00    |
|   | N. | 6635965      | 10/21/2003 | Lee et al.       | 257   | 758      | 10/9/01     |
|   | O. | 6638862      | 10/28/2003 | Sneh             | 438   | 685      | 8/6/02      |
|   | P. | 6638859      | 10/28/2003 | Sneh et al.      | 438   | 680      | 9/27/02     |
|   | Q. | 6638810      | 10/28/2003 | Bakli et al.     | 438   | 240      | 11/5/01     |
|   | R. | 6652924      | 11/25/2003 | Sherman          | 427   | 576      | 5/24/01     |
|   | S. | 6660126      | 12/9/2003  | Nguyen et al.    | 156   | 345.34   | 3/2/01      |
|   | T. | 6664192      | 12/16/2003 | Satta et al.     | 438   | 704      | 4/15/02     |
|   | U. | 2004/0005753 | 1/8/2004   | Kostamo et al.   | 438   | 222      | 3/20/03     |
|   | V. | 2004/0007171 | 1/15/2004  | Ritala et al.    | 117   | 89       | 7/10/03     |
| W | W. | 6679951      | 1/20/2004  | Soininen et al.  | 148   | 240      | 11/13/01    |

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|----|--|--------------|------|---------|-------|----------|-------------|
|    |  |              |      |         |       |          | YES         |
|    |  |              |      |         |       |          | NO          |
| X. |  |              |      |         |       |          |             |

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|    | B. | 6720260      | 4/13/2004  | Fair et al.         | 438   | 680      | 6/20/03     |
|    | C. | 2004/0076837 | 4/22/2004  | Hein et al.         | 428   | 446      | 10/22/02    |
|    | D. | 2004/0076751 | 4/22/2004  | Sherman             | 427   | 255.34   | 10/10/03    |
|    | E. | 6727169      | 4/27/2004  | Raaijmakers et al.  | 438   | 622      | 8/23/00     |
|    | F. | 2004/0083949 | 5/6/2004   | Sherman             | 117   | 84       | 10/22/03    |
|    | G. | 6734020      | 5/11/2004  | Lu et al.           | 436   | 55       | 3/7/01      |
|    | H. | 2004/0121616 | 6/24/2004  | Satta et al.        | 438   | 778      | 12/8/03     |
|    | I. | 6759081      | 7/6/2004   | Huganen et al.      | 427   | 58       | 4/30/02     |
|    | J. | 2004/0130029 | 7/8/2004   | Raaijmakers et al.  | 257   | 758      | 12/15/03    |
|    | K. | 6764546      | 7/20/2004  | Raaijmakers         | 117   | 93       | 12/10/02    |
|    | L. | 6767582      | 7/27/2004  | Elers               | 427   | 253      | 10/12/00    |
|    | M. | 6777353      | 8/17/2004  | Putkonen            | 438   | 785      | 4/8/03      |
|    | N. | 2004/0161636 | 8/19/2004  | Hujanen et al.      | 428   | 692      | 2/17/04     |
|    | O. | 6794287      | 9/21/2004  | Saanila et al.      | 438   | 674      | 3/20/03     |
|    | P. | 6800173      | 10/5/2004  | Chiang et al.       | 156   | 345.33   | 7/9/01      |
|    | Q. | 6800552      | 10/5/2004  | Elers et al.        | 438   | 680      | 9/17/02     |
|    | R. | 2004/0202786 | 10/14/2004 | Wongsenakhum et al. | 427   | 250      | 3/31/04     |
|    | S. | 6811814      | 11/2/2004  | Chen et al.         | 427   | 248.1    | 1/16/02     |
| 78 | T. | 6818067      | 11/16/2004 | Doering et al.      | 118   | 715      | 4/15/02     |
|    | U. | 6821889      | 11/23/2004 | Elers et al.        | 438   | 680      | 7/30/02     |

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|--|----|--------------|------|---------|-------|----------|-------------|
|  |    |              |      |         |       |          | YES      NO |
|  | V. |              |      |         |       |          |             |
|  | W. |              |      |         |       |          |             |
|  | X. |              |      |         |       |          |             |

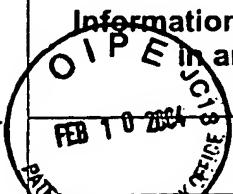
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PTO-1449


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| B. | 5711811         | 01/27/98 | Suntola et al.  | 118   | 711      | 11/28/95    |
| C. | 5916369         | 06/29/99 | Anderson et al. | 118   | 715      | 06/07/95    |
| D. | 6387185 B2      | 05/14/02 | Doering et al.  | 118   | 729      | 01/16/01    |
| E. | 2003/0003635 A1 | 01/02/03 | Paranjpe et al. | 438   | 149      | 05/23/01    |
| F. | 6511539 B1      | 01/28/03 | Raaijmakers     | 117   | 102      | 09/08/99    |
| G. |                 |          |                 |       |          |             |
| H. |                 |          |                 |       |          |             |
| I. |                 |          |                 |       |          |             |
| J. |                 |          |                 |       |          |             |
| K. |                 |          |                 |       |          |             |

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|    |              |      |         |       |          | YES         | NO |
| L. |              |      |         |       |          |             |    |
| M. |              |      |         |       |          |             |    |
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

|  |                              |                           |                                  |
|--|------------------------------|---------------------------|----------------------------------|
| PTO-1449<br><b>Information Disclosure Citation<br/>in an Application</b> | Application No.              | Applicant(s)              |                                  |
|  | 10/706,637                   | Jacques C.S. Kools et al. |                                  |
|  | Docket Number<br>021208.0247 | Group Art Unit<br>2822    | Filing Date<br>November 12, 2003 |

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| E. |              |         |               |       |          |             |
| F. | —            |         |               |       |          |             |
| G. |              |         |               |       |          |             |
| H. |              |         |               |       |          |             |
| I. |              |         |               |       |          |             |
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| K. |              |         |               |       |          |             |
| L. |              |         |               |       |          |             |
| M. |              |         |               |       |          |             |
| N. |              |         |               |       |          |             |

**FOREIGN PATENT DOCUMENTS**

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|    |              |      |         |       |          | YES         | NO |
| O. |              |      |         |       |          |             |    |
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| EXAMINER<br><i>Wilmart</i>  | DATE CONSIDERED<br><i>5/27/05</i> |
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